**Sets and Venn Diagrams**

1. Out of 100 ladies attending the church fete, 85 had a white handbag; 75 had black shoes; 60 carried an umbrella; 90 wore a ring. How many ladies must have had all four items?  
  
(A)15 (B) 35 (C)5 (D)10 (E)25

2. In the survey of 250 travelers, 93 have traveled to Africa, 155 have traveled to Asia, and 70 have traveled to both.  
  
a. How many of surveyed have traveled to Africa but not Asia?  
  
b. How many of surveyed have traveled to at least one of the two continents Africa and Asia?  
  
c. How many of surveyed have traveled to neither Africa nor Asia?

3. When the members of the Eye and I Photo Club discussed what type of film they had used during the past month, the following info was obtained: 77 used black and white, 24 used ONLY black and white, 65 used colour, 18 used ONLY colour, 101 used black and white or colour, 27 used infrared, 9 used all 3 types and 8 didn't use any film during the month.

1. What percent of the members used ONLY infrared film? b) What percent used at least 2 of the types of film?

4. In a city there are three major newspapers (A, B, C) of which at least two are read by 35% of the population. It is known that newspaper C is read by 45% of the population. Newspapers A and B are read by 15% and all the three papers are read by 10%. What percent of the population read newspaper C only?